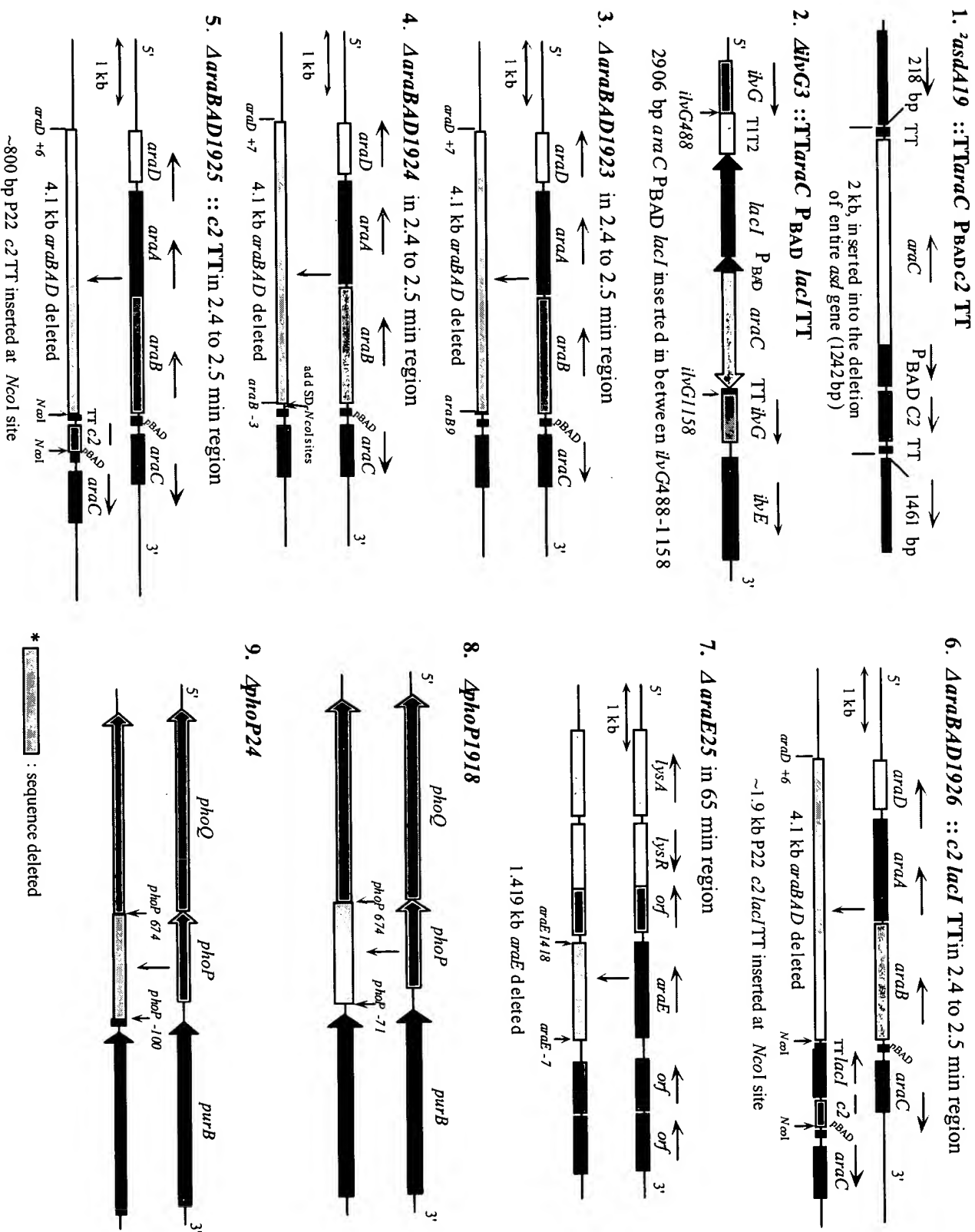


FIG. 1

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Figure 2.



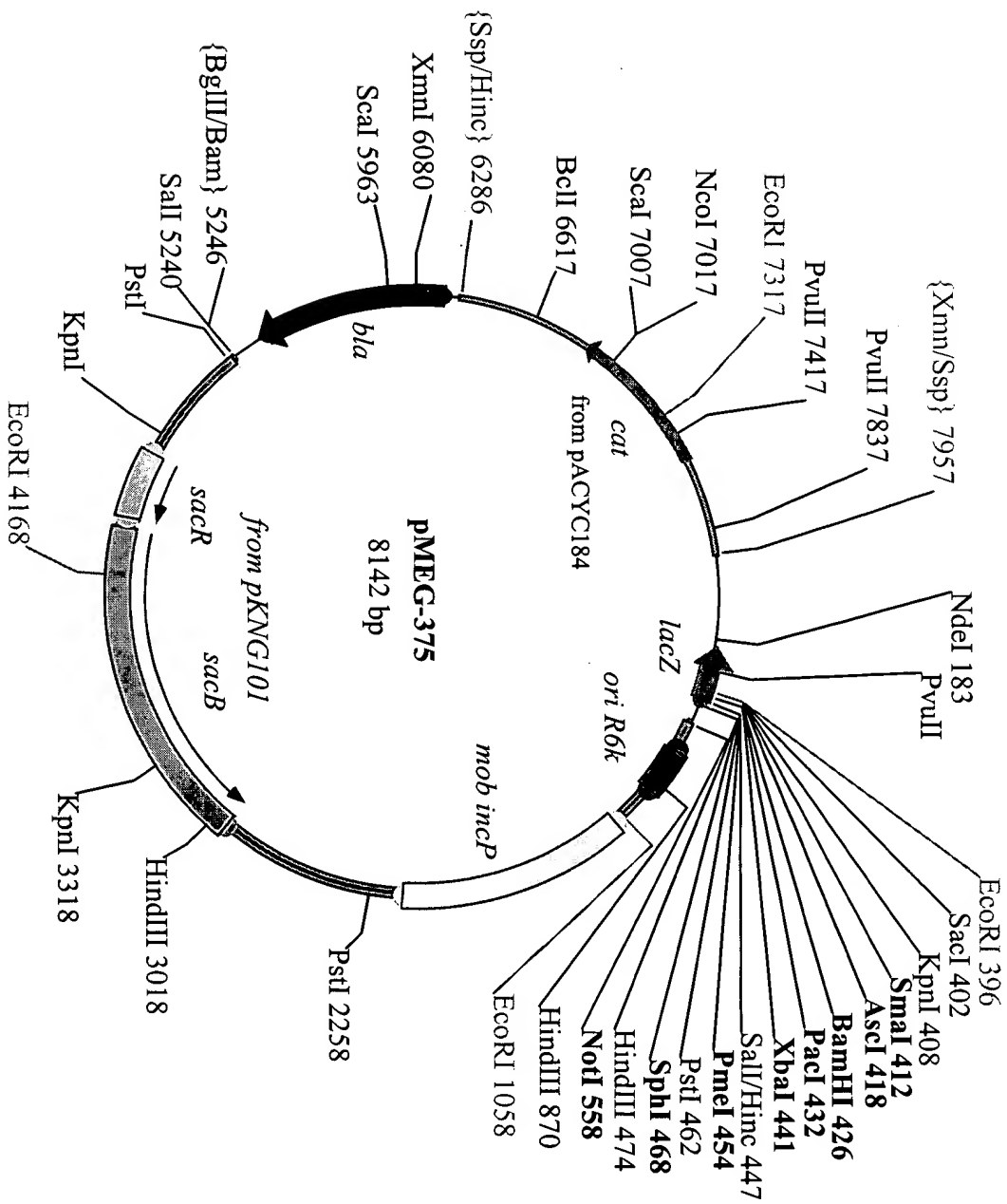
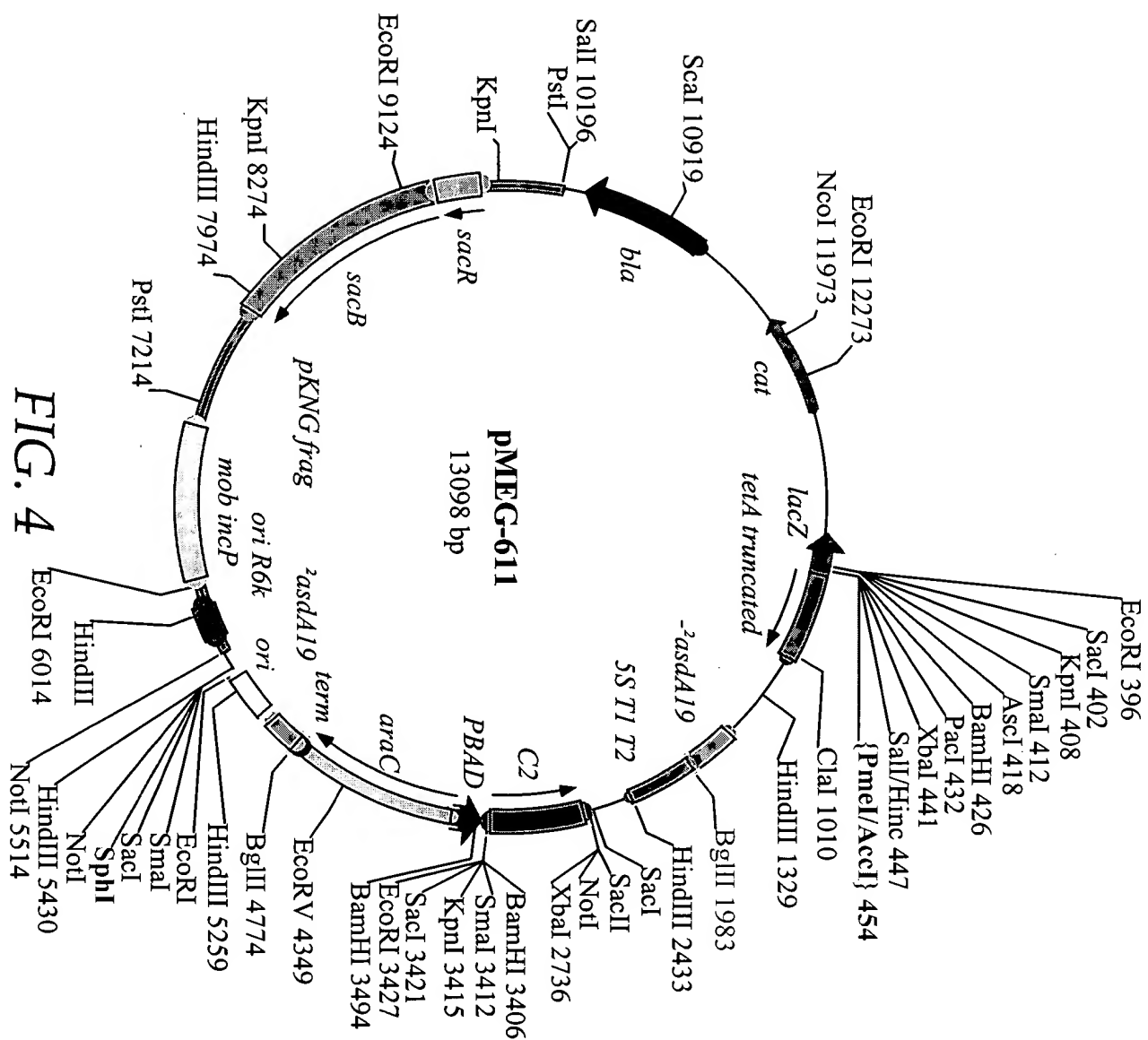


FIG. 3

09560539.042200



**FIG. 4**

09560539.042300

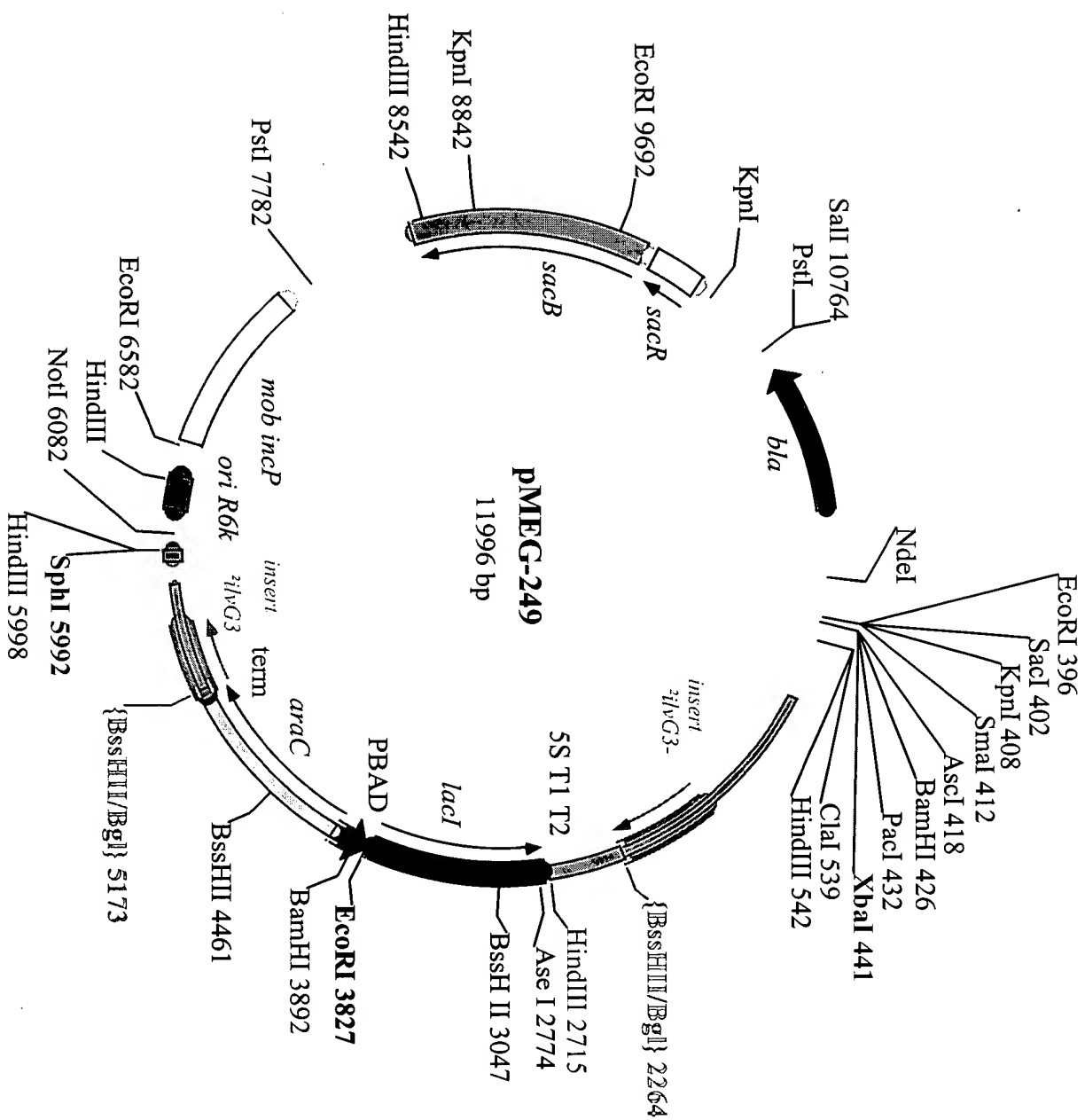


FIG. 5

04560539.042300

Figure 6. pYA3484

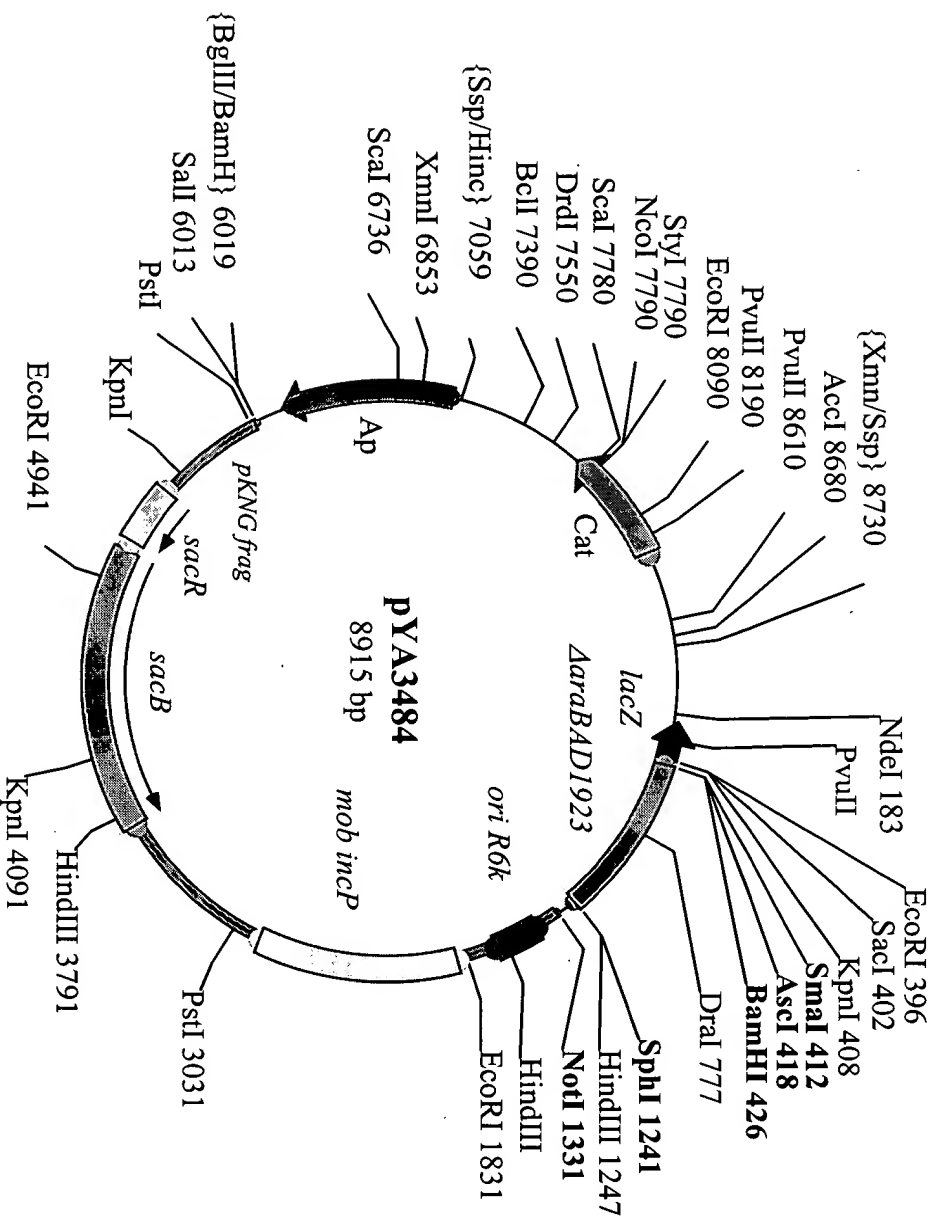
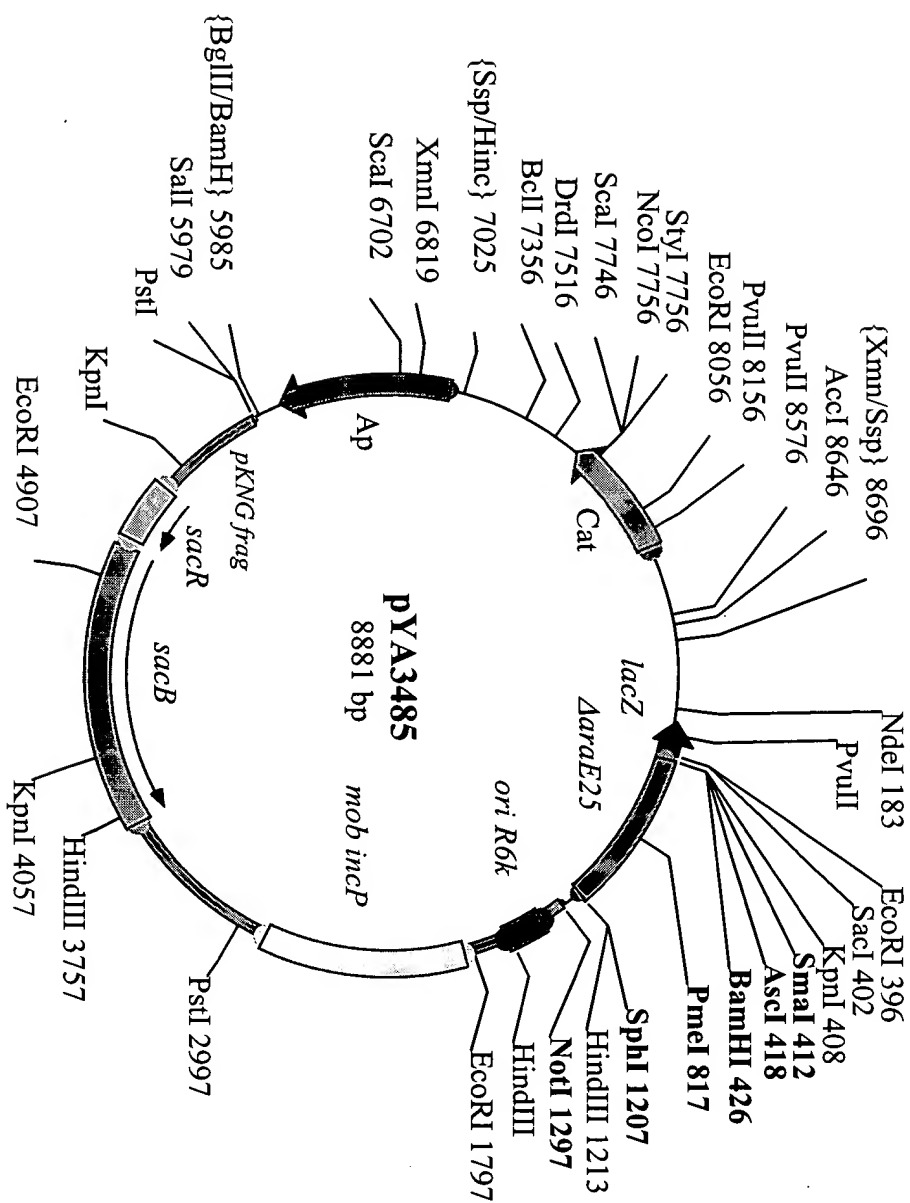


Figure 7. pYA3485



09560539.042300

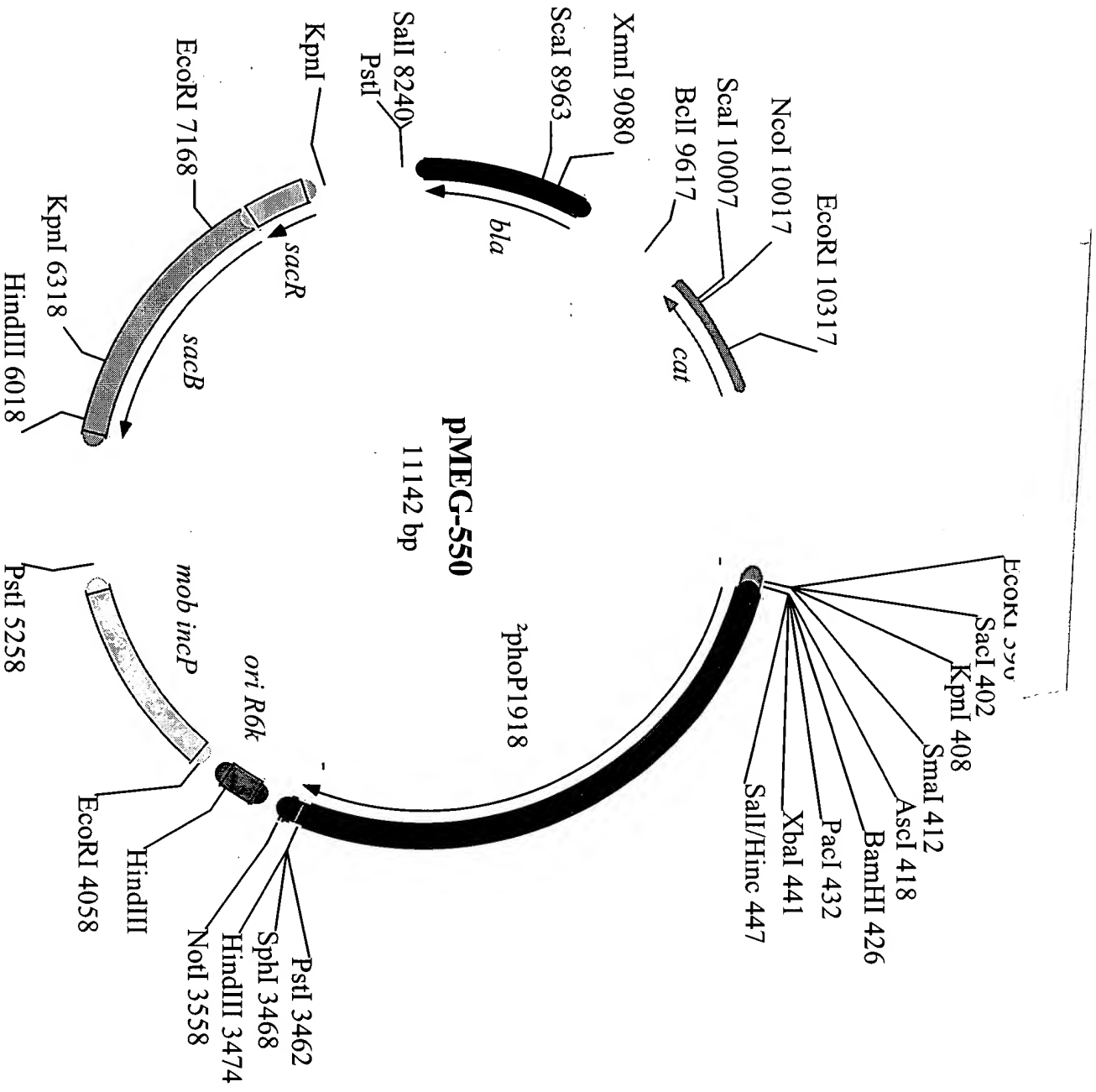


FIG. 8

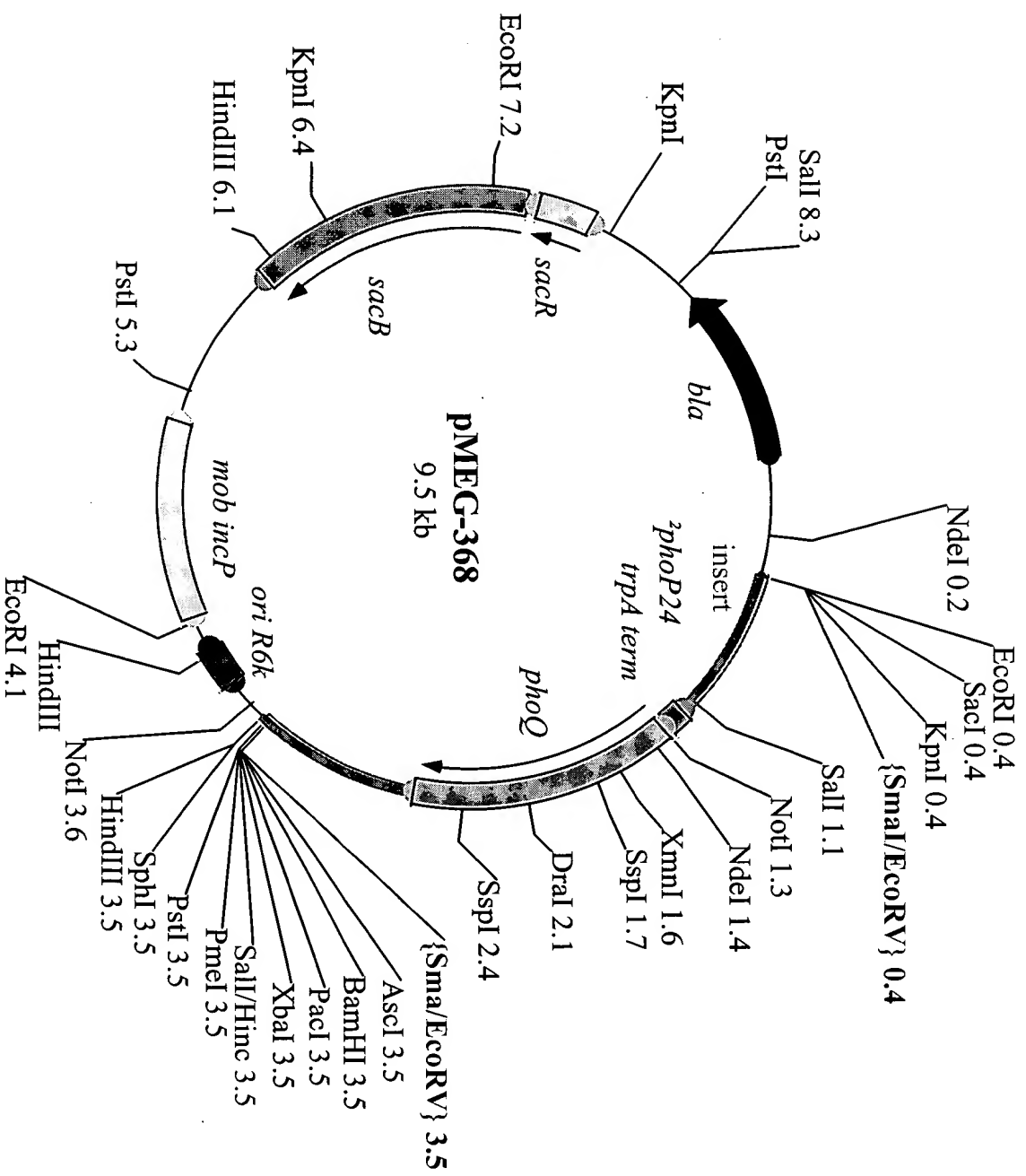


FIG. 9

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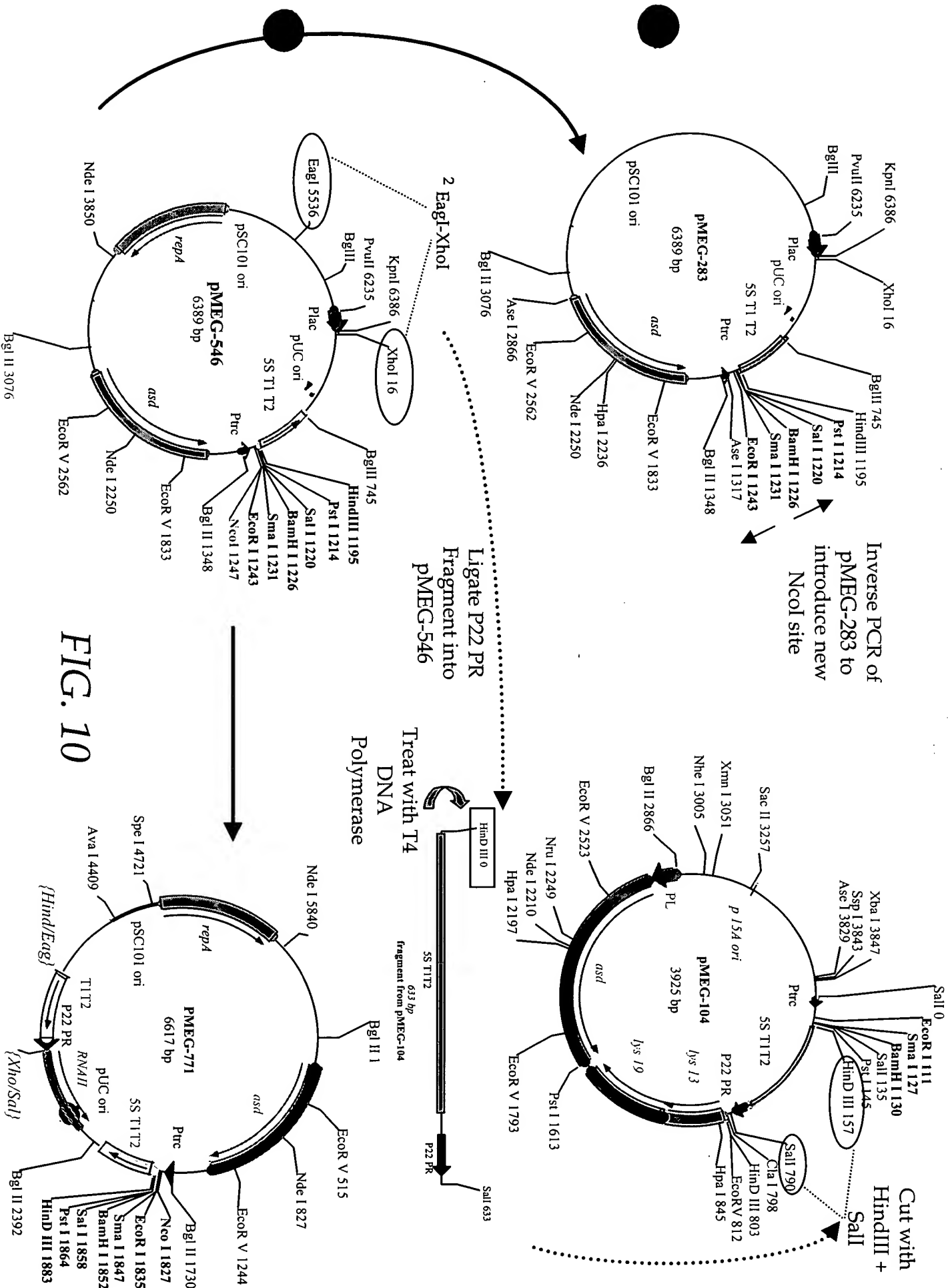
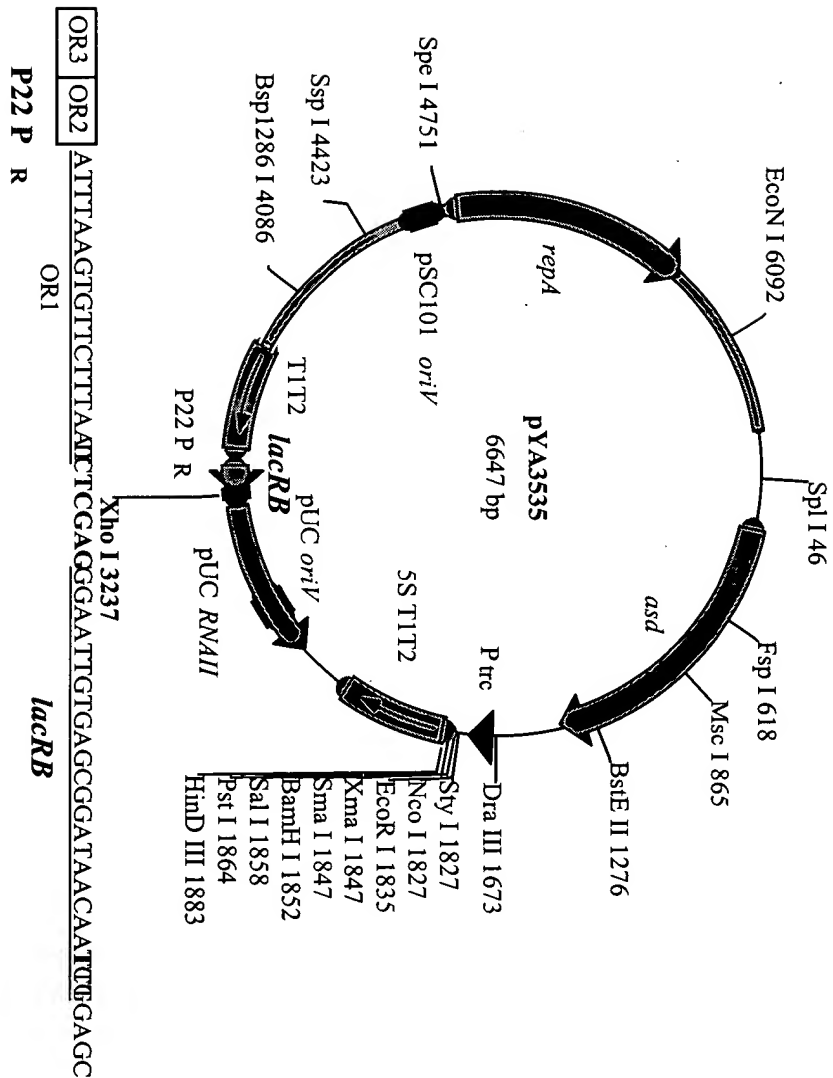


FIG. 10

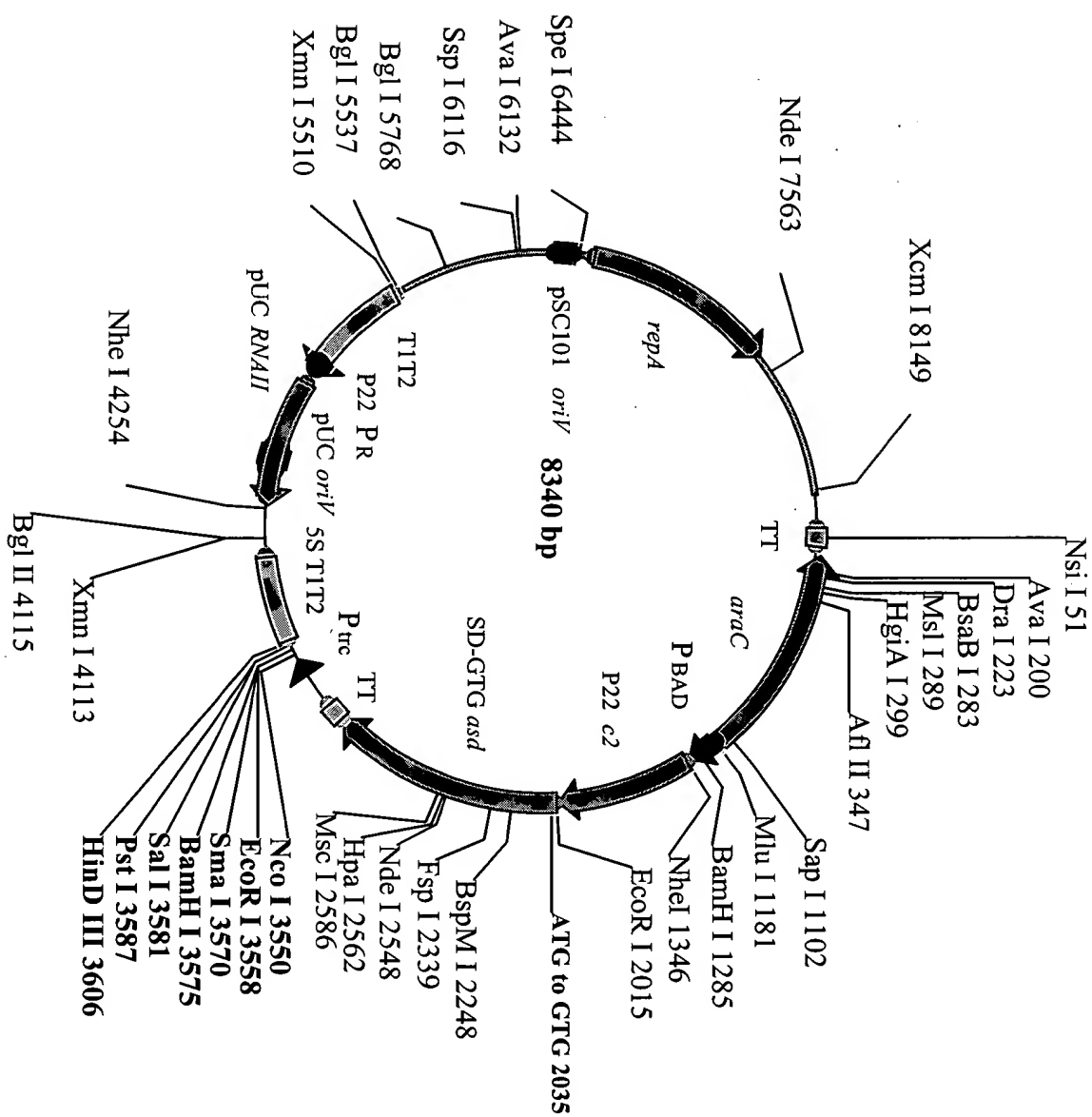
Figure 11. Modification of pMEG-771 to include ~~lac~~*CRB* (LacI repressor binding) site after P22 P R right before pUCrep to yield pYA3535

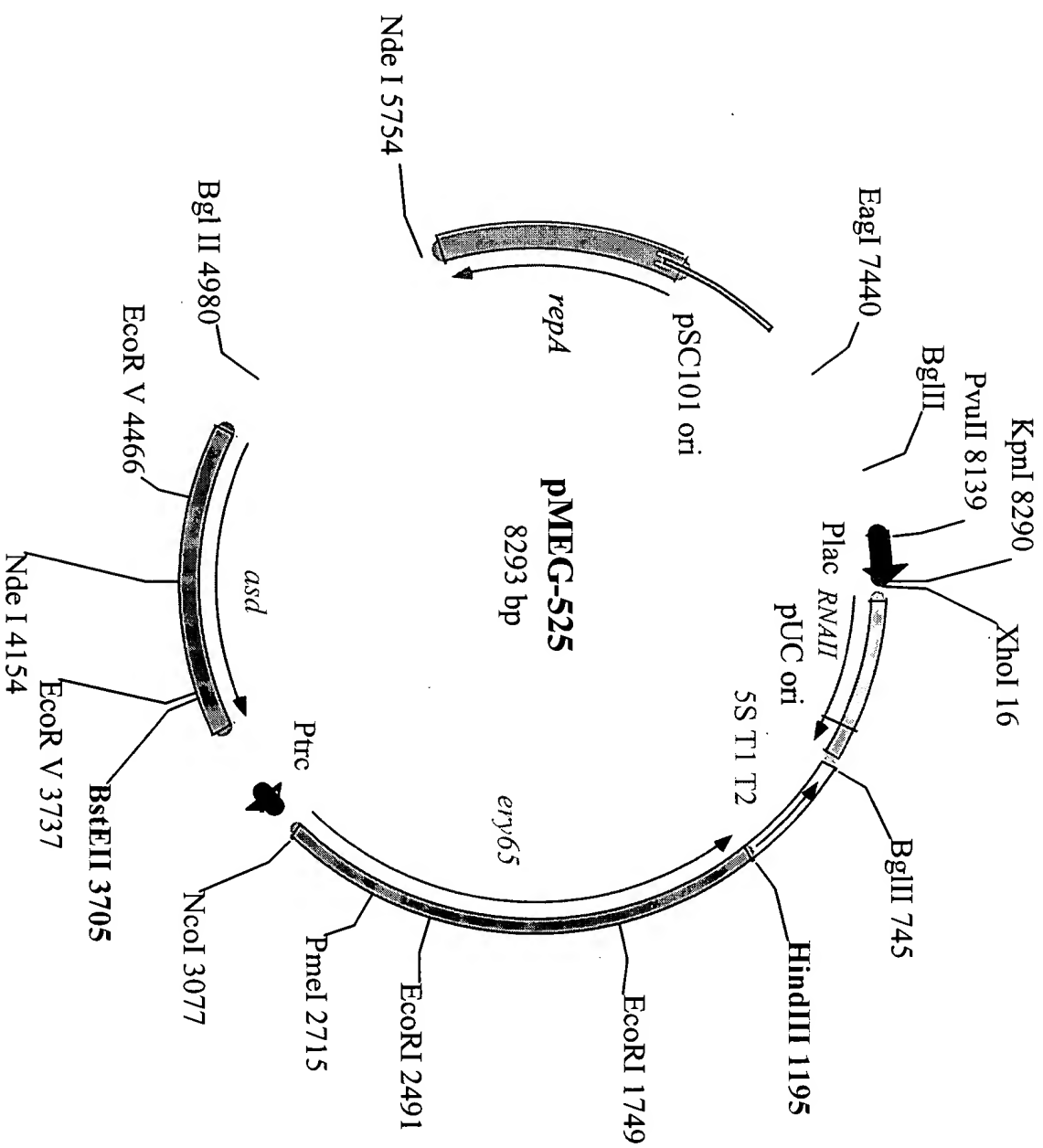
Figure 11. Modification of pMEG-771 to include a *lacRB* (LacI repressor binding) site after P22 P R right before pUC *RNAII* to yield pYA3535



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**Figure 12. Modification of pMEG-771 to replace *asd* gene with *araC* P<sub>BAD</sub> *c2* GTG<sub>asd</sub>**





**FIG. 13**

09560539.042300

# Increases in Plasmid DNA Copy Number of Ery65 Strains During Growth Without Arabinose

*Salmonella typhimurium*  
MGN-966 Containing

*Salmonella choleraesuis*  
MGN-2267 Containing

	4 hr	6 hr	8 hr
marker			
pMEG-283 + Arab.			
pMEG-283 -			
pMEG-525 + Arab.			
pMEG-525 -			

	4 hr	6 hr	8 hr
marker			
pMEG-546 + Arab.			
pMEG-546 -			
pMEG-525 + Arab.			
pMEG-525 -			

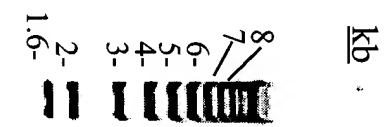
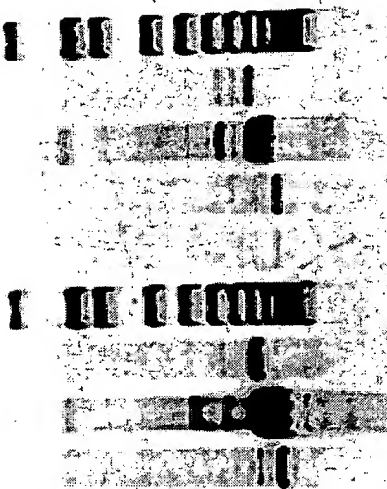
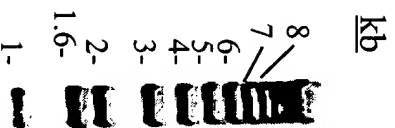


FIG. 14





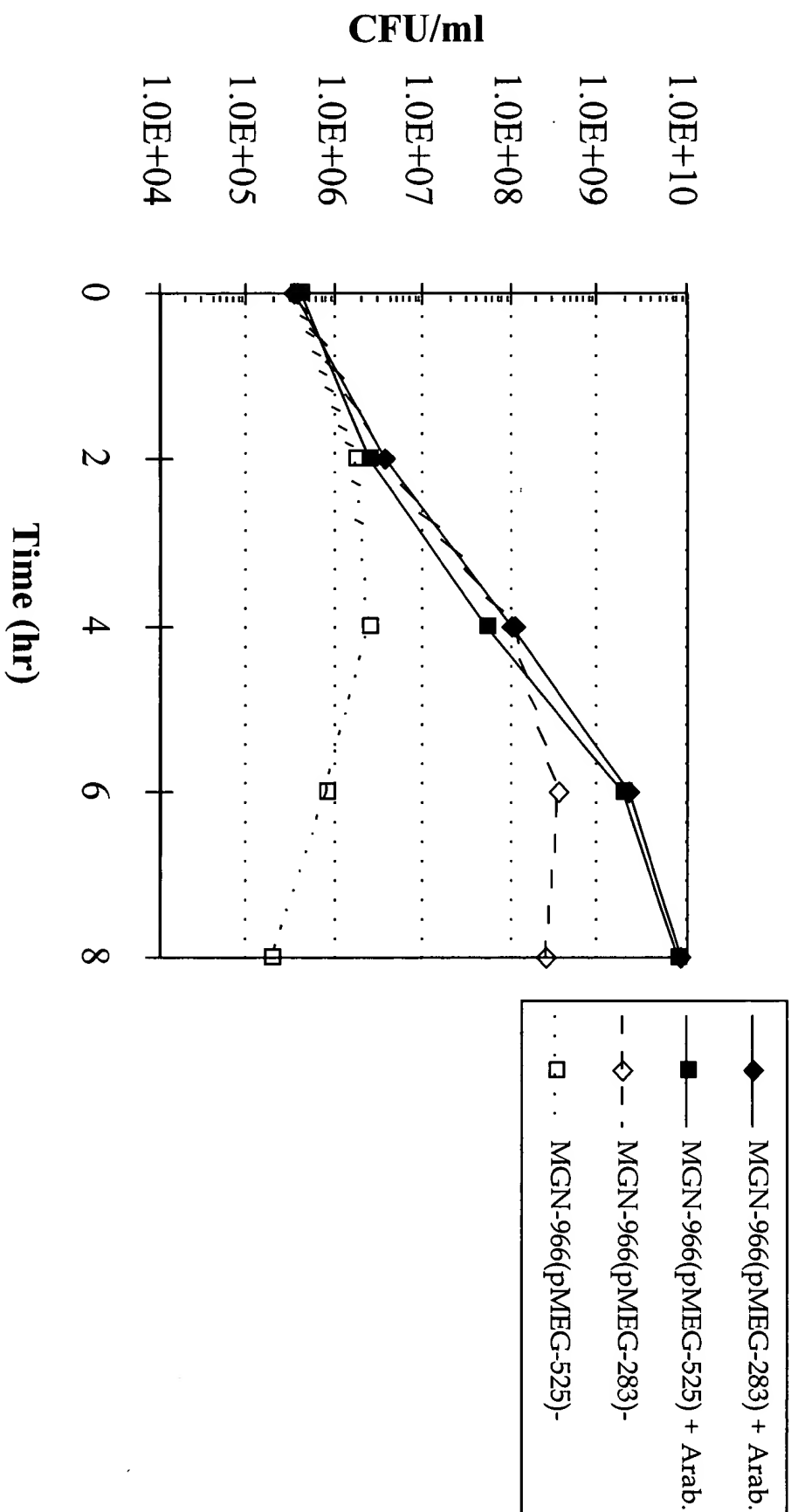


FIG. 16

09560539.042800

# Western Blot Analysis of Sera from *S. typhimurium* Inoculated Mice

Day 28 sera

Day 48 sera

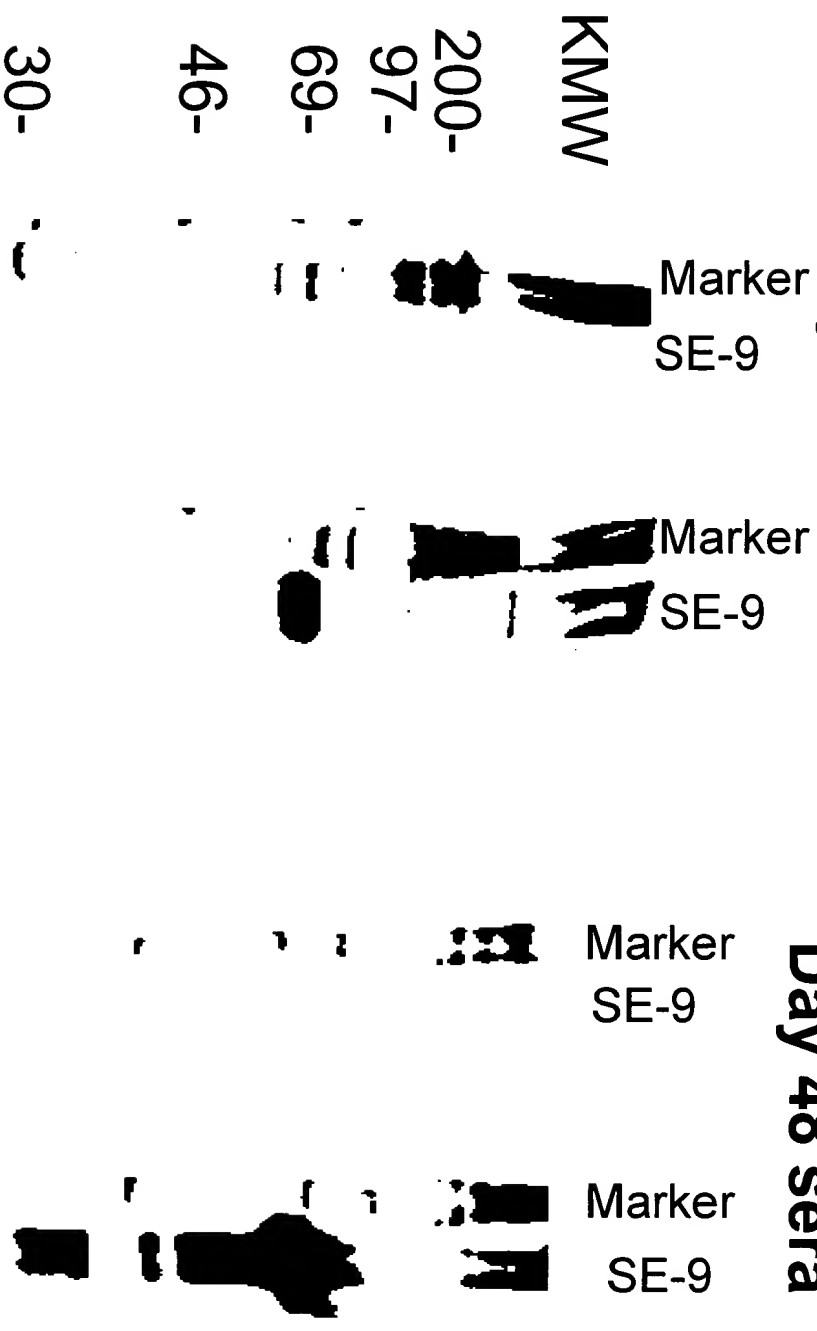


FIG. 17

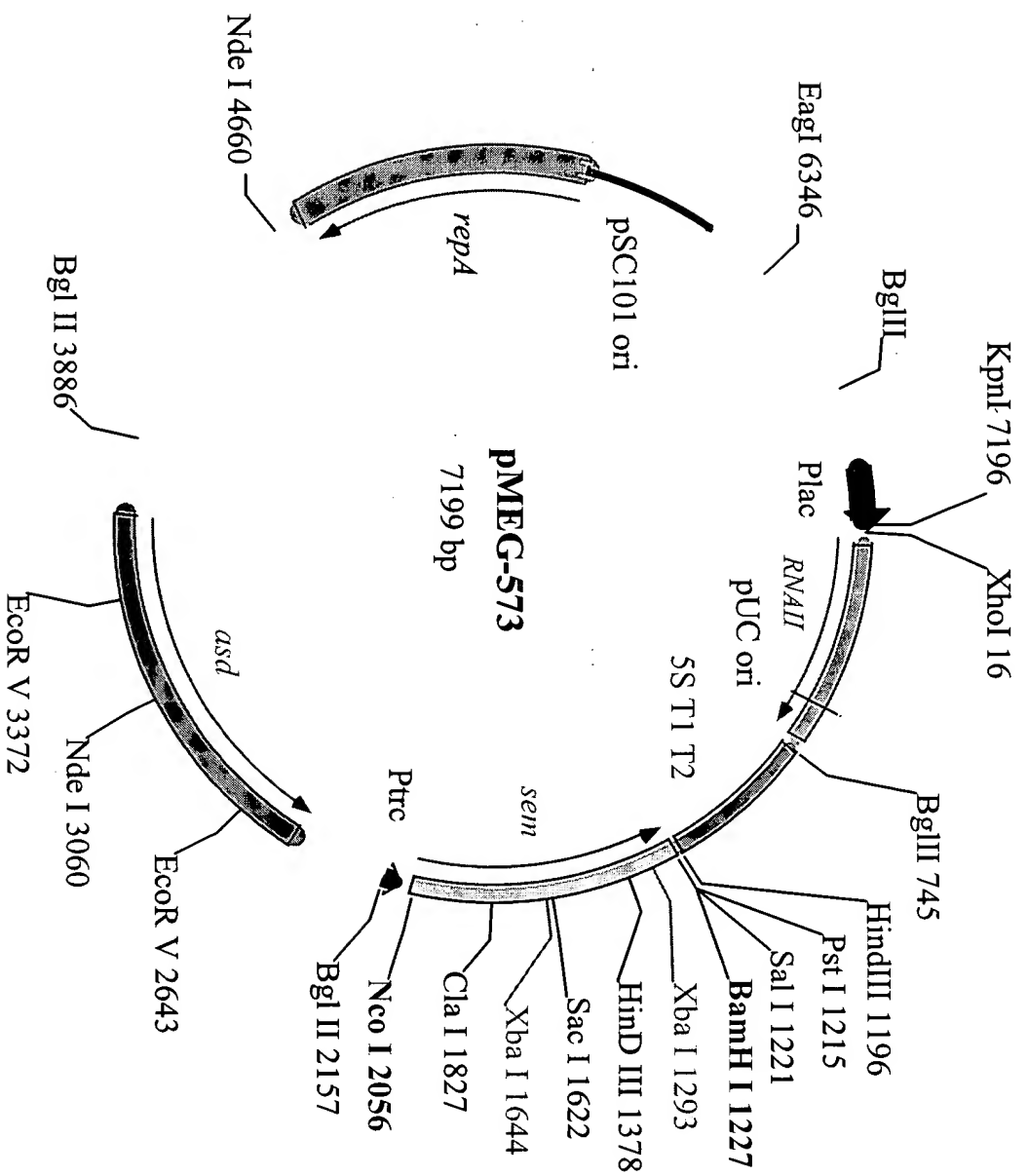


FIG. 18

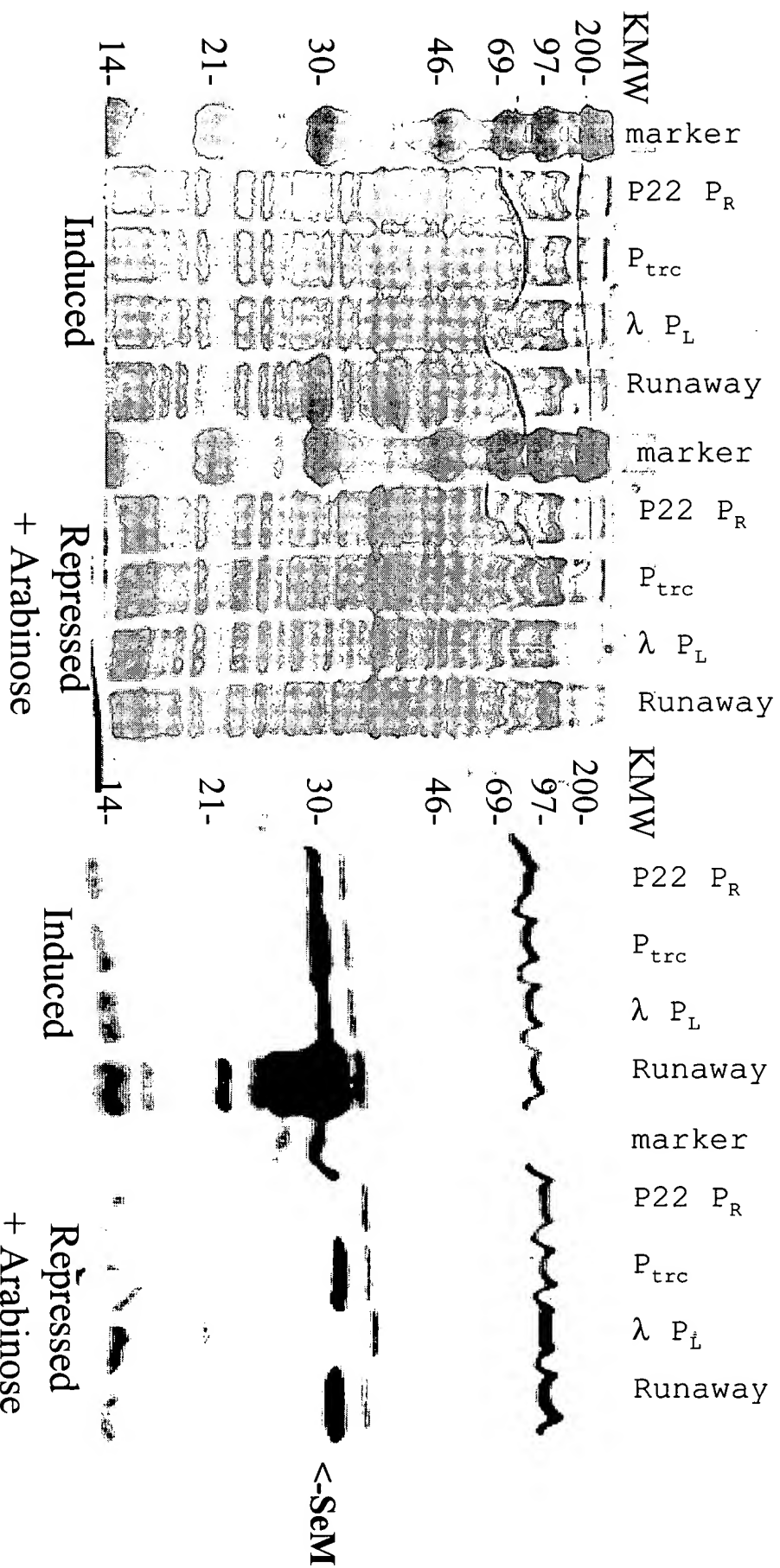


FIG. 19

09560539.042800

**Figure 20. pYA3530 with *araC* P<sub>BAD</sub> GTG *asd***

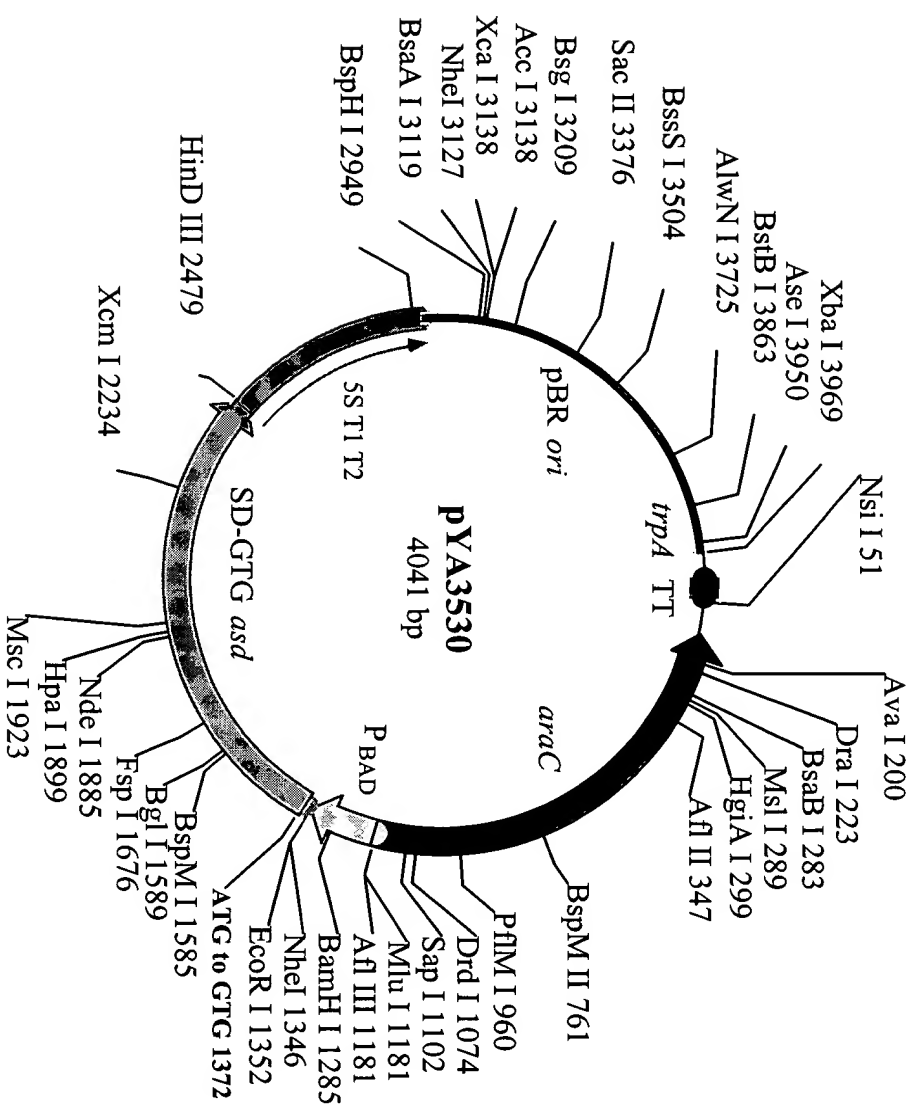
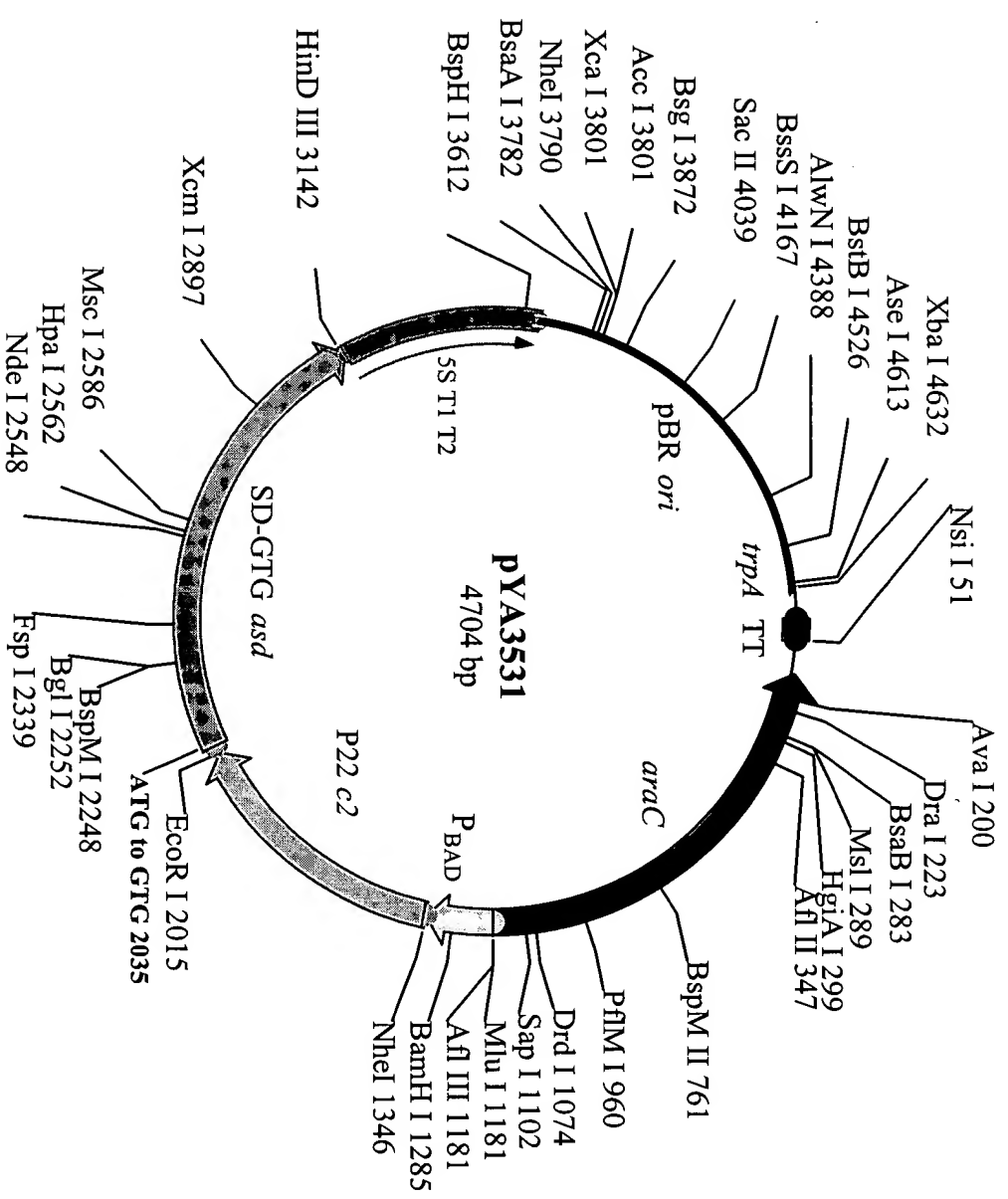
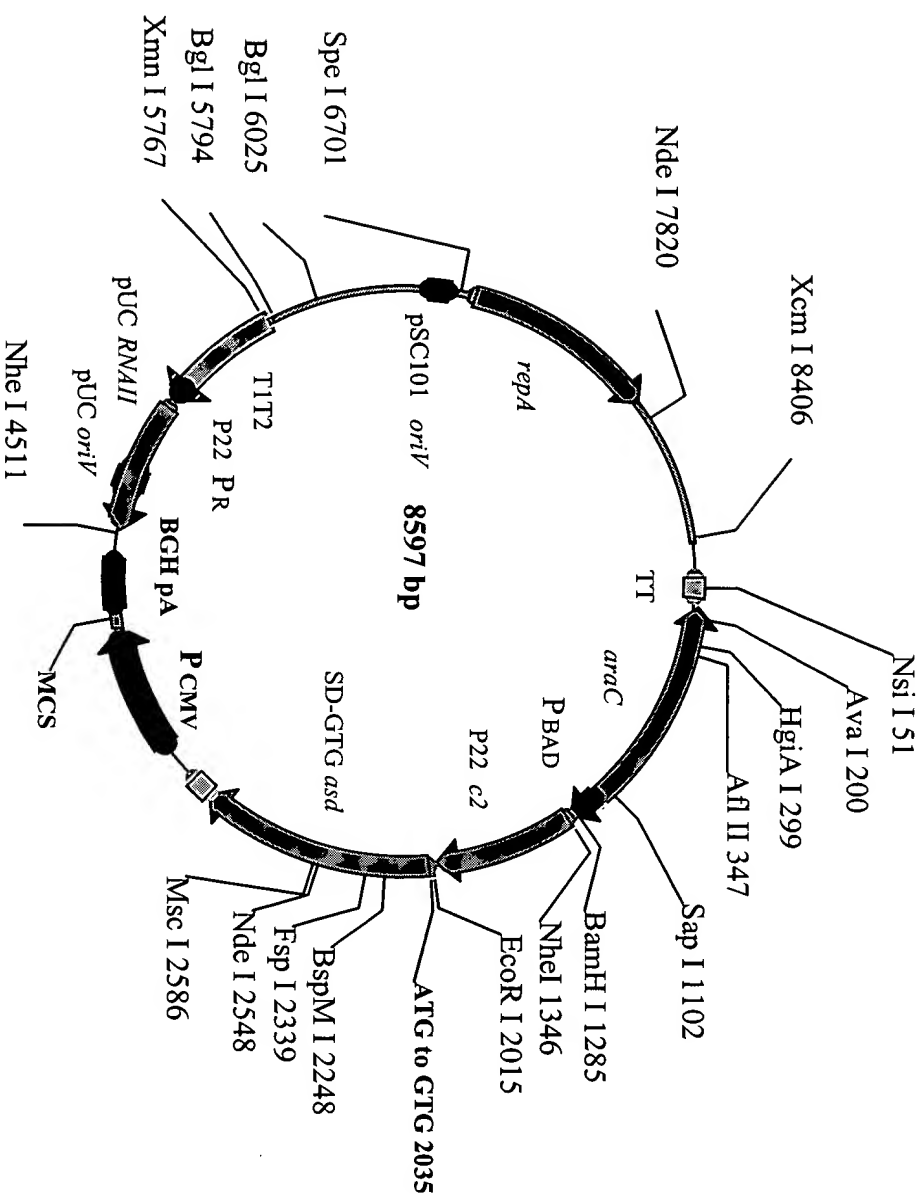


Figure 21. pYA3531 with *araC* P<sub>BAD</sub> P22 *c2* GTG *asd*



**Figure 22.** pMEG-771 modified with *asd* gene replaced by *araC* *Bad c2* GTG *asd* and *P<sub>trc</sub> MCS 5ST1T2* replaced by eucaryotic *Amv BGH PA* expression cassette from pVAX1 plasmid



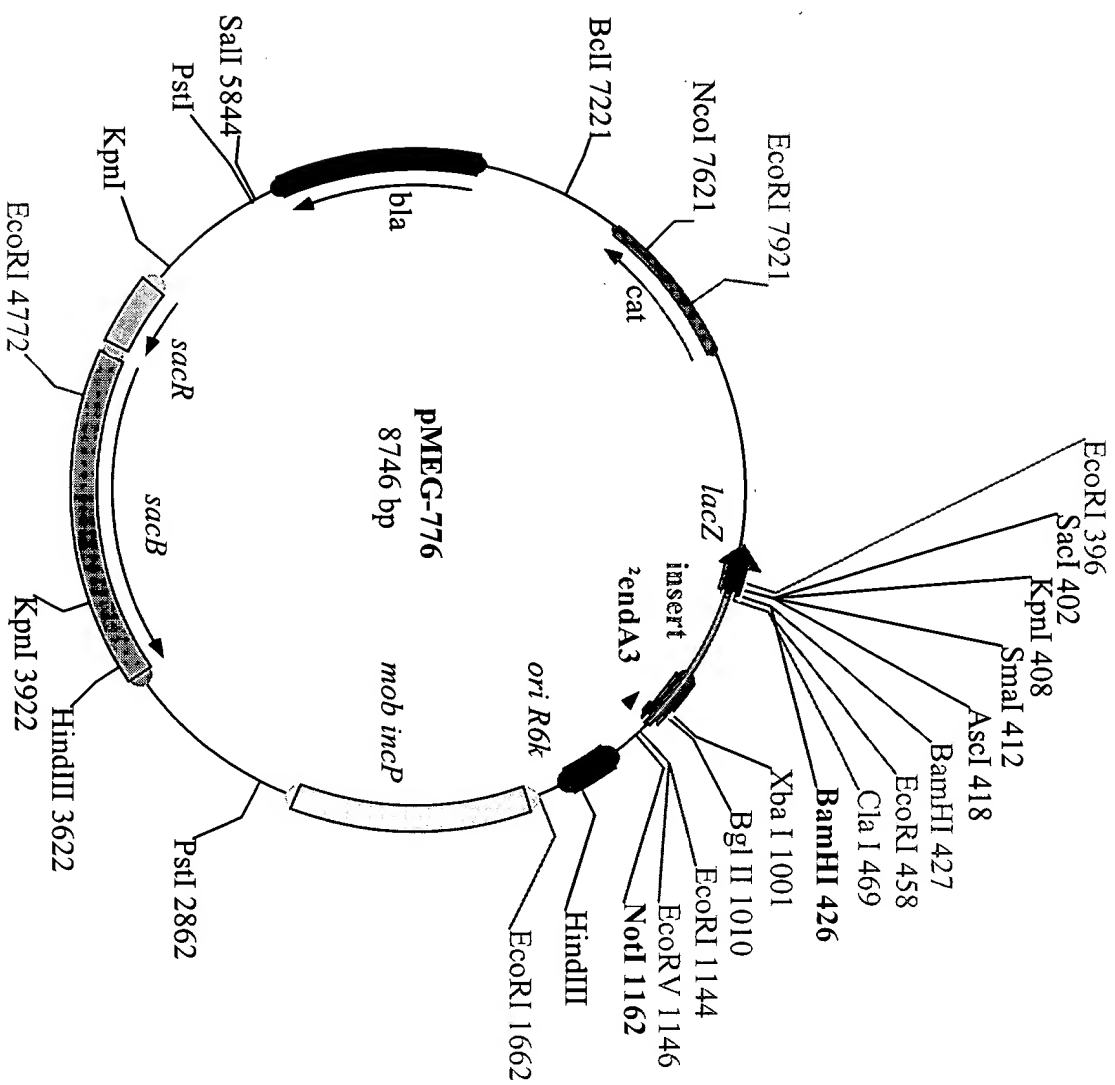


FIG. 23